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308	Initial value	JobiD	Null	Null	Null	0			Null	PRINTER	Null	NORMAL	Unknown	NotSpooled	WaitingFor Job	Waiting For Job		NotStarted	NotStarted	Uptime
4	Description	Job ID	ID of the PCM through which the job was	Personality of the PCM through which the job was received	Priority of the PCM through which the job was received	Number of bytes received by the MUX through	calls to the apsPDIData routine by a primary source PCM. This includes all PCMs except	the despooler (it is not a primary source PCM).	URL of the job (pull print only)	Output requested by PCM for tile job(Printer. Snooler, Either)	Output assignment attribute for the job (Printer,	File fortnat indicator (PDF)	State of the job in the MUX	State of the job in the spooler	State of the job in the interpreter	State of the job in the engine	This is the number of bytes read by the interpreter through calls to the PMDD Read routine	Status of output to printer (not started, in progress, completed)	Status of job being spooled (not started, in	Timestamp (printer up time) of last attribute update
314	Attribute	Joh ID	PCM ID	Personality	PCM Priority	MUX receive byte count			URL of the job	Output request attribute for	Output assignment attribute	File fortnat indicator (PDF)	Mux Job State	Spooler Job State	Interpreter Job State	Engine Job State	PMDD bytes read	MUX printer output status	MUX Spooling status	Timestamp
0,6	30	/ \		3.10	<i>/</i>	<i>/</i>									,					

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MUX Job State Diagram

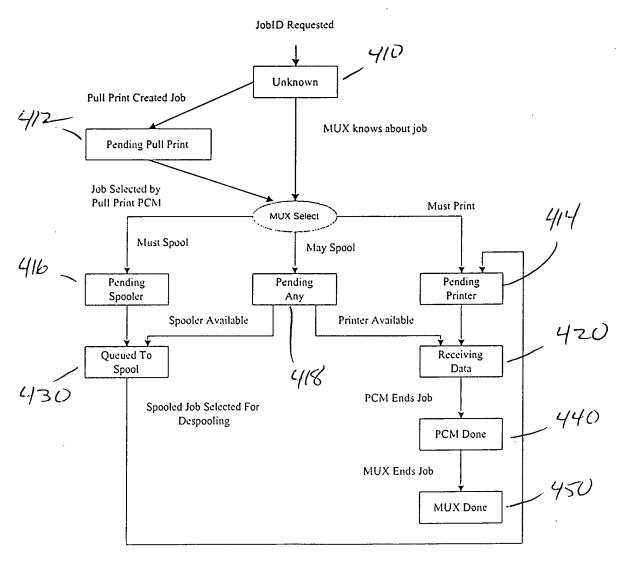


Fig. 4

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Spooler State Diagram

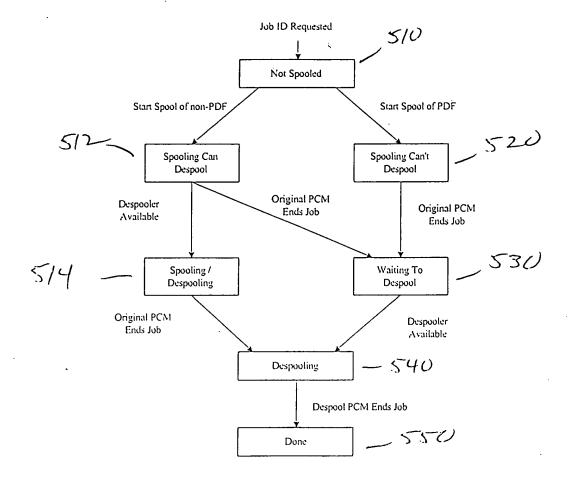


Fig. 5

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Interpreter Job State Diagram

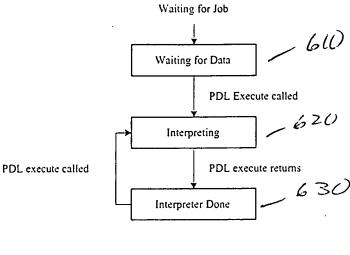


Fig. 6

1700

Engine Job State Diagram

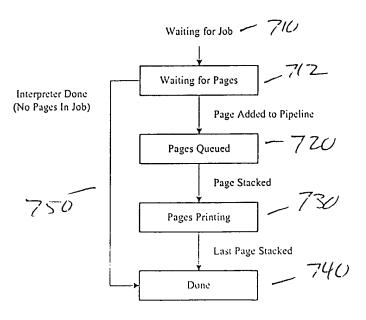


Fig. 7

718	018	718	820
Process	From State	Fo State	Changed by
MUX	Unknown	Pending Printer	MUX OS Thread
	Unknown	Pending Any	MUX OS Thread
	Unknown	Pending Spooler	MUX OS Thread
	Unknown	Pending Pull Print	Pull Print wppSubmitlob
	Pending Printer	Receiving Data	MUX OS Thread
	Pending Any	Receiving Data	MUX OS Thread
	Pending Spooler	Queued to Spool	MUX OS Thread
	Pending Any	Queued to Spool	MUX OS Thread
	Queued to Spool	Pending Printer	MUX OS Thread
	Receiving Data	Done	MUX apsPDIEnd
Spooler	Not Spooled	Spooling Can Despool	sp-open
	Spooling Can Despool	Spooling / Despooling	sp-coj
	Spooling Can Despool	Waiting to Despool	sp-coj
	Spooling / Despooling	Despooling	Despool PCM
	Not Spooled	Spooling Can't Despool	sp-open
	Spooling Can't Despool	Waiting to Despool	sp-coj
	Waiting to Despool	Despooling	Despool PCM
	Despooling	Done	Despool PCM
Interpreter	any	any	event announce callback
Enginc	an ₇	any	event announce callback

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Weights ID	1.10	log	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	dal	KNATP	Notes
ar annumb	3.	<u> </u>	RW			
JM-ATTR JOB-ID	lht	_	RO			Set by JM.
JM-ATTR-PCM ID	Int (Enum)	1	RW			Set by MUX.
JM-ATTR PCM-PERSONALITY	Int (Enum)	1	RW			Set by MUX.
JM-ATTR-PCM-PRIORITY	Int	1	RW			Set by MUX.
JM-ATTR-SPOOLED-BYTES	lnt	I	RW			Set by MUX.
JM-ATTR-URL	String	1	RW			Set by WPP.
JM-ATTR-OUTPUT-REQUEST	Int (Enum)	-1	RW			Set by MUX. Enum will contain PRINTER, SPOOLER, WAIT, REJECTED. Others will be added if needed.
JM-ATTR-FILE-FORMAT	Int (Enum)	-	RW			Set by MUX. Enum will contain at least UNKNOWN and PDF. Others will be added as needed.
JM-ATTR-MUX-STATE	Int (Enum)	-	RW			Set by MUX. Enum will be created to list the possible states.
JM-ATTR-SPOOL-STATE	Int (Enum)	_	RW			Set by SPOOLER. Enum will be created to list the possible states.
IM ATTR INTERPRETER STATE	Int(Emnn)	1	RO			Set by JM. Enum will be created to list the possible states.
JM-ATTR-ENGINE-STATE	Int (Enum)	ı	RO			Set by JM. Enum will be created to list the possible states.
JM-ATTR-JOB-STATE	Int (bitfields or array of int's?)	<u>.I.</u>	RO	Yes	Yes	Done by JM. Convert from JM-ATTR * STATE attributes
JM ATTR-PAGES-SUBMITTED	lnt	_	RO			Set by JM. This is the number of pages submitted into the pipeline by the interpreter (incremented once for each page, regardless of the copy count).
JM-ATTR-TOTAL-PAGES IN JOB	lnt		RO			Set by JM. This is the total number of pages, including all copies of each page, which have been submitted into the pipeline.
JIM ATTR TOTAL PAGES STACKED	Lnt		RO			Set byJM. This is tile total number of pages that have been stacked by the engine (incremented for each copy of a page).
JM-ATTR-RECEIVED-BYTES	ıuı	1	RW			Set by MUX. The MUX should ensure that this is not doubled when we are spooling (ie, the bytes should only be counted when they are received from the host, not from the spooler).
JM-ATTR-BYTES-PROCESSED	Lnt	_	RW			Set by PMDD
JM-ATTR-LAST-MODIFIED	Int	.=	RO			Set by JM. This is a timestamp (or count) used to tell if data modified since last checked this value.
JM ATTR-CANCEL-INITIATOR	Ini (Enmn)	_	RW	Yes	Yes	Set by requestel of cancel. This is who requested the cancel (operator, tlser, device)
JM-ATTR-CANCEL	Lnt	_	КW	_		Set by JM (or IPDS?), 0 if not cancelling, 1 if cancel initiated
JM-ATTR-OPEN COUNT	lht	_	RO			Set by JM. Not read by others. Used to know how many people have this handle open (have not called destroy yet).
JM-ATTR-COPY-SET	Int		RO			Set by JM. This is the set for the last page stacked if doing collation.
JM-ATTR-COPY-COUNT	Int	_	RO			Set by JM. This is the copy count for the last page stacked if doing collation.
JM-ATTR-COLLATE	Int	_	RW			True if collated job, fillse otherwise.
JM-ATTR-DUPLEX	lnt	.=	RW	_		True if job is duplex, false otherwise.

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